ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASE – PI MEETING March 16-17, Athens, GA PROGRAM

SATURDAY, MARCH 16

8:30	John Gittleman	U Georgia	Welc	ome
8:35	James Porter	U Georgia	Open	ing remarks
8:40	Sam Scheiner	NSF	Open	ing remarks
8:45	Susan VandeWoude Kevin Crooks	Colorado State U		effects of urban fragmentation and landscape connectivity on disease prevalence and transmission orth American felids
9:15	Meredith Wright	J. Craig Venter Inst		parative genome analysis reveals extensive microdiversity among strains of Acinetobacter nannii from a single US hospital
9:30	Dorte Dopfer	U Wisconsin Madison	Cause of cat	al Network Analysis to trace the propagation of pathogenic E. coli through small-scale populations ttle
9:45	Bethany Krebs	U Illinois Urbana- Champaign	Socia	al behavior and vector-borne disease infection in the American Robin
10:00	BRE	AK		
10:30	Brett Froelich	U North Carolina Chapel	Hill	The importance of long term cross-disciplinary study of pathogen dynamics in relation to extreme climatic events in complex estuarine systems: an examination across scales
11:00	Meghan Mason	U Minnesota		Transmission of Leptospira at the household level: the role of rodents, environmental water, and human behaviors
11:15	Sergey Berg	U Minnesota		Small-scale spatial analysis of factors associated with Leptospira contamination of surface water in slum communities from southern Chile
11:30	Jeremie Brusini	U California Santa Cruz		Differential coevolutionary dynamics for E. coli and the phage lambda in two resource environments
11:45	Albert Ko	Yale U		Ecoepidemiology of leptospirosis in the urban slums of Brazil
12:00	LUN	СН		
1:30	James Porter	U Georgia		ing the line between human and environmental health: Coral Disease in the Florida Keys
2:00 2:15	Karen Shapiro Gael Kurath	U California Davis USGS		beds as sinks for zoonotic pathogens ers of ecology and evolution of a fish rhabdovirus in Pacific Salmon
2:30	POSTER SESSION			

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SUNDAY, MARCH 17

8:30 9:00 9:15 9:30	Eric Harvill Laura Estep Laura Pomeroy Wayne Getz	Oregon State U Ohio State U	Colonizati of pathoge rust Pucci Transmiss	ry pathogens and host microbiota on site tenacity as a key determinant of focus influence during epidemic expansion ens characterized by fat-tailed dispersal: Simulation and field experiments with stripe nia striiformis ion and immune dynamics of endemic foot-and-mouth disease by serotype n Etosha, Namibia, and lessons for anthrax worldwide		
10:00						
10:15 10:45	Graham Hickling Marilyn O'Hara Ruiz		ampaign	dynamics of hosts, vectors and viruses Mechanisms that maintain the diversity of an insect viral pathogen		
11:00 11:15 11:30	Arietta Fleming-Davi Alfred Roca Darin Carroll	es U Chicago U Illinois Urbana-Ch CDC	ampaign			
12:00	LUN	СН				
1:15 1:45	Charles King Elizabeth Falendysz	Case Western Reserve U USGS	Evaula	oblem of polyparasitism in coastal Kenya tion of the Gambian pouched rat as a potential Monkeypox reservoir using bioluminescent		
2:00	Maria Diuk-Wasser	Yale U	imaging Emergence of human babesiosis in northeastern United States			
2:15	Matthew Barber	U Utah	Evolutionary arms races in the battle for iron			
2:30	Vanessa Ezenwa	U Georgia	Microp	parasite-macroparasite interactions: Worms and germs in African buffalo		
3:00	BREAK					
3:30 4:00 4:15 4:30	Holly Biggs Glenn Lahodny Jr. Marta Wayne Matthew Thomas	Duke U Texas A&M U U Florida Pennsylvania State U	Probabi Experin	s with research on the impact and social ecology of bacterial zoonoses in northern Tanzania lity of an outbreak for stochastic epidemic models with environmental transmission nental evolution of sigma virus in Drosophila uence of environmental temperature on transmission of vector-borne diseases		

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Ankomah, P.	Emory U	Antibiotic Treatment of Bacterial Infections: Pharmacodynamics meets Population Dynamics
Ascunce, M.	U Florida	meets Immunology Host-pathogens-endosymbiont interactions: How do virus-endosymbiont interactions affect host life history traits?
Beechler, B.	Oregon State U	Disease invasion and multi-parasite interactions: Rift Valley fever and bovine tuberculosis in African Buffalo in Kruger National Park, South Africa
Belle, J.	Emory U	Using spatial networks inferred from pair-wise cost-distance distributions to understand the spatial spread of pathogens across complex landscapes: an application to human schistosomes
Benavides, J.	Montana State U	Interspecies transmission and within-host dynamics of brucellosis in elk and bison
Bloomfield, L.	Stanford U	Multiplex Social Relations and Retroviral Transmission Risk in Rural Western Uganda
Breyta, R.	U Washington	Differential Susceptibility in Host Populations Within the Landscape Ecology of a Fish Rhabdovirus
Brito, I.	U Michigan	Modeling the spread of IHN Virus in salmonids throughout the Northwestern United States
Bruns, E.	U Virginia	Disease impact on population dynamics: a demographic approach
Budischak, S.	U Georgia	Interactive effects of protein nutrition and parasite co-infection
Bushman, M.	Emory U	Within-host competition of drug-sensitive and drug-resistant malaria parasites
Call, D.	Washington State U	Ecological and socio-economic factors impacting maintenance and dissemination of antibiotic resistance in the Greater Serengeti Ecosystem
Campbell, L.	U Kansas	Monkeypox niche models: Spatial data processing and analysis
Conrad, P.	U California Davis	Roles of a marine host cycle and particle aggregation in transmission of zoonotic pathogens in coastal ecosystems
Culbreth, E.	U Florida	Sigma virus and male reproductive success, or, who's your daddy
Dobbs, F.	Old Dominion U	Microscopic islandsAquatic pathogens colonizing marine aggregates
Dunn, J.	RMIT U	M150775 Babesiosis Emergence in the United States
Friberg, C.	Copenhagen U	The effect of low concentrations of antibiotics on S. aureus
Frydenborg, B.	U Georgia	The influence of temperature on bacteriophage of Serratia marsecens
Fuller, J.	U Michigan	The role of shared sanitation and housing density on the spread of pathogens within a rural community

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Fuqua, C.	Indiana U Bloomington	Costs, Benefits and Population Dynamics of a Cooperative Virulence Plasmid
Goldberg, T.	U Wisconsin Madison	Co-infection of Wild African Primates with Simian Immunodeficiency Viruses and Simian Hemorrhagic Fever Viruses
Goodman, K.	U Georgia	Virulence genes and pathogenicity islands in Vibrio isolates cultured from diseased elkhorn coral
Gross, K.	North Carolina State U	The community ecology of co-infection: Identifying determinants of pathogen diversity
Guinn-Durbak, L.	Ohio State U	Evaluating covariates of waterborne disease spread: cholera in Nigeria as a case study
Haas, S.	U North Carolina Charlotte	Empirical space-time modeling of emerging forest disease in a heterogeneous landscape of environmental change
Hamer, G.	Texas A&M U	Patterns of haemosporidia and West Nile virus association in free-ranging avian hosts
Hawley, D.	Virginia Tech U	Evolution of Increased Virulence in a Recently Emerged Wildlife Pathogen: Parallel Patterns and Potential Mechanisms
Hersh, M.	Eastern Michigan U	The community ecology of a troublesome tickborne triad: Co-circulation of Anaplasma phagocytophilum, Babesia microti, and Borrelia burgdoferi in blacklegged ticks and wildlife hosts
Hobbs, T.	Colorado State U	Bayesian hierarchical modeling of disease dynamics: A case example using chronic wasting disease
Hofmann, E.	Old Dominion U	Development of a Theoretical Basis for Modeling Disease Processes in Marine Invertebrate
Hosseini, P.	EcoHealth Alliance	Comparative Spillover Dynamics of Avian Influenza in Endemic Countries
Ivanek, R.	Texas A&M U	What have we learned about the role of intermittent shedding and environmental persistence in transmission of infectious diseases?
Kemp, D.	U Georgia	Spatial homogeneity of microbial communities associated with the surface mucus layer of the reef building coral Acropora palmata
Kramer, A.	U Georgia	Understanding the contribution of marine aggregate-associated bacteria to pathogen load in oysters using an agent-based model
Krusor, C.	U California Davis	Potential role for marine snails in the transmission of Toxoplasma gondii to Southern sea otters
Lane, K.	U Georgia	Testing for signatures of disease-induced selection in a wild population
Lester, J.	U Cambridge	Disease, Networks and the Kibale National Park
Levy, K.	U Michigan	Social and environmental contexts modify the effect of extreme rainfall on diarrhea incidence in Northern Coastal Ecuador
Lopera, J.	U Wisconsin Madison	The utility of in vivo imaging in investigations of emerging zoonoses

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Manore, C.	U Georgia	The role of African buffalo in interepidemic persistence of Rift Valley fever in Kruger National Park, South Africa
Mazzillo, F.	U California Santa Cruz	Adherence of Toxoplasma gondii via exopolymer substances to Macrocystis pyrifera: A proposed mechanism for sea otter exposure to terrestrial pathogens
Mendiola, L.	EcoHealth Alliance	EcoHealthNet: Providing Practical, Interdisciplinary, and Mentored Training Opportunities for EcoHealth Scientists
Moller-Jacobs, L.	Pennsylvania State U	The influence of juvenile nutritional quantity on aspects of vector competence of the malaria vector mosquito Anopheles stephensi
Monaghan, A.	Nat Center Atmospheric Res	Climate change and the vector mosquito Aedes aegypti at the high altitude margins in Mexico: Observational and modeling results
Moody, T.	U Tennessee	Plestiodon spp. skinks contribute to the low risk of Lyme disease in the southeastern U.S.
Nakazawa, Y.	CDC	The impact of paleo climates and glaciation on monkeypox distributions
Newman, C.	U Wisconsin Madison	Ecology of Culex flavivirus during West Nile virus epidemic and inter-epidemic years in suburban Chicago
Nys, E.	Rollins College	The use of the sea anemone Aiptasia pallida as a model organism for studying white pox coral disease
Olival, K.	EcoHealth Alliance	The Ecology, Emergence and Pandemic Potential of Nipah virus in Bangladesh
Paige, S.	U Wisconsin Madison	Animal contact, injury, and zoonotic disease risk in western Uganda
Pang, G.	Michigan State U	Blacklegged Tick Development and Survivorship in the Eastern United States
Pierce, M.	U Connecticut	Functional and species diversity of the gut and pallial fluid microbiomes of the eastern oyster, Crassostrea virginica
Rogers, K.	U Utah	Adaptive Evolution of Vaccinia Virus Despite a Low Mutation Rate
Ruiz-Lopez, M.	U Oregon	Use of RNA-seq and nextRAD for the development of a red colobus monkey population genomic resource
Shapiro, K.	U California Davis	Association of Toxoplasma gondii oocysts with fresh, estuarine, and marine macroaggregates
Spicknal, I.	U Michigan	The role of E. coli HGT on the population spread of antibiotic resistance: interaction between pathogens, commensals, and transients
Tien, J.	Ohio State U	Disease invasion of networks of communities
Zhang, L.	U Michigan	The relationship between the virulence of Escherichia coli and antibiotic resistance: A study in rural Ecuador communities
Zhang, X-h.	Texas A&M U	Modeling the Effect of Vaccination on the Transmission Dynamics of Escherichia coli O157:H7 in Cattle and Goat Herds